

SEQUENCE LISTING

<110> MIHARA, Yasushiro
 TAKEUCHI, Sonoko
 JOJIMA, Yasuko
 TONOUCHI, Naoto
 FUDOU, Ryosuke
 YOKOZEKI, Kenzo

<120> NOVEL MICROORGANISM AND METHOD FOR PRODUCING XYLITOL OR
 D-XYLULOSE

<130> 0010-1015-0

<140> 09/347,001

<141> 1999-07-02

<150> JP 10-193472

<151> 1998-07-08

<150> JP 10-310398

<151> 1998-10-30

<150> JP 11-12244

<151> 1999-01-20

<160> 5

<170> PatentIn Ver. 2.1

<210> 1

<211> 1438

<212> DNA

<213> Unknown Organism

<220>

<223> Description of Unknown Organism:strain P528

<220>

<223> N at position 1365 is A, T, G, or C

<400> 1

tgatcctggc	tcagagcgaa	cgctggcggc	atgcttaaca	catgcaagtc	gcacggacct	60
ttcgggggtga	gtggcgggacg	ggtgagtaac	gcgtagggat	ctatccacgg	gtgggggata	120
acactgggaa	actgggtgcta	ataccgcatg	atacctgagg	gtcaaaggcg	cgagtcgcct	180
gtggaggagc	ctgcgttcga	ttagcttggt	ggtggggtaa	aggcctacca	aggcgatgat	240
cgatagctgg	tctgagagga	tgatcagcca	cactggggact	gagacacggc	ccagactcct	300
acggggaggca	gcagtgggga	atattggaca	atgggcgcaa	gctgatcca	gcaatgccgc	360

gtgtgtgaag	aaggctcttcg	gattgtaaag	cactttcgac	ggggacgatg	atgacgggtac	420
ccgtagaaga	agccccggct	aacttcgtgc	cagcagccgc	ggtaatacga	aggggggctag	480
cgttgctcgg	aatgactggg	cgtaaaagggc	gtgtaggcgg	ttgttacagt	cagatgtgaa	540
attccagggc	ttaaccttgg	ggctgcattt	gatacgtagc	gactagagtg	tgagagaggg	600
ttgtggaatt	cccagtgtag	aggtgaaatt	cgtagatatt	gggaagaaca	ccggtggcga	660
agggcgcaac	ctggctcatg	actgacgtg	aggcgcgaaa	gcgtggggag	caaacaggat	720
tagataccct	ggtagtccac	gctgtaaacg	atgtgtgctg	gatgttgggt	aacttagtta	780
ctcagtgctg	aagctaacgc	gctaagcaca	ccgcctggga	agtacggccg	caaggttgaa	840
atcacaagga	attgacgggg	gccgcacaaa	gcggtggagc	atgtgggtta	attcgaagca	900
acgcgcagaa	ccttaccagg	gcttgacatg	gggaggctgt	actcagagat	gggtatttcc	960
cgcaagggac	ctcctgcaca	gggtgtgcat	ggctgtcgtc	agctcgtgtc	gtgagatggt	1020
ggggttaagtc	cgcgaacgag	cgcacaacctc	gccttttagtt	gccagcacgt	ttgggtgggc	1080
actctagagg	aactgcgggt	gacaagccgg	aggaaggtgg	ggatgacgtc	aagtcctcat	1140
ggcccttatg	tcttgggcta	cacacgtgct	acaatggcgg	tgacagtggg	aagctagatg	1200
gtgacatcat	ccgatctca	aaaaagccgtc	tcagttcgga	ttgtactctg	caactcagat	1260
acatgaaggt	ggaatcgcta	gtaatcgcg	atcagcatgc	cgcggtgaat	acgttcccgg	1320
gccttgata	caccgcccgt	cacaccatgg	gagttgggtt	gaccngaagc	cggtgagcga	1380
accgcaagga	cgcagccgac	cacggctcggg	tcagcgcactg	gggtgaagtc	gtaacaag	1438

<210> 2

<211> 1436

<212> DNA

<213> Unknown Organism

<220>

<223> Description of Unknown Organism: strain S877

<400> 2

tgagcctggc	tcagagcgaa	cgctggcggc	atgcttaaca	catgcaagtc	gcacgaacct	60
ttcgggggta	gtggcggaac	ggtagtaaac	gcgtaggaac	ctatccagag	gtgggggata	120
acacggggaa	actgggtgcta	ataccgcata	atacctgagg	gttaaaaggct	ttgttgccct	180
ttggaggggc	ctgcggttga	ttagctagtt	gggtgggtaa	aggctgacca	aggcgatgat	240
caatagctgg	tttgagagga	tgatcagcca	cactgggact	gagacacggc	ccagactcct	300
acgggaggca	gcagtgggga	atatattgaca	atggggggcaa	ccctgatcca	gcaatgcgcg	360
gtgtgtgaag	aaggctcttcg	gattgtaaag	cactttcact	agggaagatg	atgacgggtac	420
ctagagaaga	agccccggct	aacttcgtgc	cagcagccgc	ggtaatacga	aggggggctag	480
cgttgtctcg	aatgactggg	cgtaaagggc	gcgtaggcgg	tttatacagt	cagatgtgaa	540
atccccgggc	ttaacctggg	aactgcattt	gatacgtata	gactagagtc	cgagagagga	600
ttgcggaaat	cccagtgtag	aggtgaaatt	cgtagatatt	gggaagaaca	ccagttgcga	660
agggcgcaat	ctggctcgga	actgacgtg	aggcgcgaaa	gcgtggggag	cgaacaggat	720
tagataccct	ggtagtccac	gctgtaaacg	atgtgtgctg	gatgttggga	aacttagttt	780
ttcagtgctg	aagctaacgt	gctaagcaca	ccgcctgggg	agtacgacgc	caaggttgaa	840
actcaaaaga	attgacgggg	gccgcacaaa	gcggtggagc	ctgtgtttta	attcgaagca	900
acgcgcagaa	ccttaccagg	tcttgtatgg	ggaggacgtg	ctcagagatg	agtattttctt	960
gggacctccc	gcacaggtgc	tgcattggctg	tcgtcagctc	gtgtcgtgag	atgttggggt	1020
aagtcccgcga	acgagcgcaa	cccctgtctt	tagttgccat	cacgtttggg	ttggcactct	1080
agagagactg	ccggtgacaa	gccggaggaa	gggtggggatg	acgtcaagtc	ctcatggccc	1140
ttatgacctg	ggctacacac	gtgtacaaat	ggcggtgaca	atgggaagct	acatgggtgac	1200

atgatgccga	tctcaaaaaa	cgctctcagt	tccgattgca	ctctgcaact	cgagtgcattg	1260
aaggttgaat	cgctagtaat	cgtaggatcag	catgccaccg	tgaatacgtt	ccccggccctt	1320
gtacacaccg	cccgtcacac	catggggagt	ggtttgacct	taagccgggtg	agccaaccgc	1380
aagggcgag	cgacccacgg	tccgggtcagc	gactgggggtg	aagtcgtaac	aaggta	1436

<210> 3
 <211> 691
 <212> DNA
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism:strain S1009

<400> 3						
tgatcctggc	tcagagcgaa	cgctggcgcc	atgcttaaca	catgcaagtc	gcacgaacct	60
ttcgggggtta	gtggcggacg	ggtgagtaac	gcgtaggaaac	ctatccagag	gtggggggata	120
acacccgggaa	actgggtgcta	ataccgcatg	atacctgagg	gttaaaggct	tttgttgccct	180
ttggaggggc	ctgcgtttga	ttagctagtt	ggttgggttaa	aggctgacca	aggcgatgat	240
caatagctgg	tttgagagga	tgatcagcca	cactggggact	gagacacggc	ccagactcct	300
acgggaggca	gcagtgggga	atattggaca	atggggggcaa	ccctgatcca	gcaatgccgc	360
gtgtgtgaag	aaggtcttcg	gattgtaaag	cactttcact	aggggaagatg	atgacgggtac	420
ctagagaaga	agccccggct	aacttcgtgc	cagcagccgc	ggtaatacga	aggggggctag	480
cgttgctcgg	aatgactggg	cgtaaagggc	gcgtaggcgg	tttatacagt	cagatgtgaa	540
atcccgggc	ttaacctggg	aactgcattt	gatacgtata	gactagagtc	cgagagagga	600
ttgcggaatt	cccagtgtag	aggtgaaatt	cgtagatatt	gggaagaaca	ccagttgcga	660
agggcgcaat	ctggctcgga	actgacgctg	a			691

<210> 4
 <211> 691
 <212> DNA
 <213> Unknown Organism

<220>
 <223> Description of Unknown Organism:strain S1019

<400> 4						
tgatcctggc	tcagagcgaa	cgctggcgcc	atgcttaaca	catgcaagtc	gcacgaacct	60
ttcgggggtta	gtggcggacg	ggtgagtaac	gcgtaggaaac	ctatccagag	gtggggggata	120
acacccgggaa	actgggtgcta	ataccgcatg	atacctgagg	gttaaaggct	tttgttgccct	180
ttggaggggc	ctgcgtttga	ttagctagtt	ggttgggttaa	aggctgacca	aggcgatgat	240
caatagctgg	tttgagagga	tgatcagcca	cactggggact	gagacacggc	ccagactcct	300
acgggaggca	gcagtgggga	atattggaca	atggggggcaa	ccctgatcca	gcaatgccgc	360
gtgtgtgaag	aaggtcttcg	gattgtaaag	cactttcact	aggggaagatg	atgacgggtac	420
ctagagaaga	agccccggct	aacttcgtgc	cagcagccgc	ggtaatacga	aggggggctag	480
cgttgctcgg	aatgactggg	cgtaaagggc	gcgtaggcgg	tttatacagt	cagatgtgaa	540
atccccgggc	ttaacctggg	aactgcattt	gatacgtata	gactagagtc	cgagagagga	600
ttgcggaatt	cccagtgtag	aggtgaaatt	cgtagatatt	gggaagaaca	ccagttgcga	660

aggcggaat ctggctcgga actgacgctg a

691

<210> 5

<211> 691

<212> DNA

<213> Unknown Organism

<220>

<223> Description of Unknown Organism:strain S1023

<400> 5

tgatcctggc	tcagagcgaa	cgctggcggc	atgcttaaca	catgcaagtc	gcacgaacct	60
ttcgggggta	gtggcggaag	ggtgagtaac	gcgtaggaac	ctatcctgag	gtggggggata	120
acactgggaa	actggtgcta	ataccgcatg	atacctgagg	gtcaaaggct	tttgttgctt	180
taggaggggc	ctgcgtttga	ttagctagtt	ggttgggtaa	aggctgacca	aggcgatgat	240
caatagctgg	tttagagga	tgatcagcca	caactgggact	gagacacggc	ccagactcct	300
acgggaggca	gcagtgggga	atattggaca	atggggggcaa	ccctgatcca	gcaatgccgc	360
gtgtgtgaag	aaggtcttcg	gattgtaaag	cactttcact	agggaagatg	atgacgggtac	420
ctagagaaga	agccccggct	aacttcgtgc	cagcagccgc	ggtaatacga	aggggggctag	480
cgttgctcgg	aatgactggg	cgtaaagggc	gcgtaggcgg	tttatacagt	cagatgtgaa	540
atcccggggc	ttaacctggg	aactgcattt	gatacgtata	gactagagtc	cgagagagga	600
ttgcggaatt	cccagtgtag	agggtgaaatt	cgtagatatt	gggaagaaca	ccagttgcga	660
aggcggaat	ctggctcgga	actgacgctg	a			691